

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Herbert Campbell

GENERAL INFORMATION:

Name:	Northern KY University
Address:	Nunn Drive Highland Heights, Kentucky 41099
Date application received:	2-Jan-08
SIC Code/SIC description:	8221, Colleges, Universities, and Professional Schools
Source ID:	21-037-00095
Agency Interest:	37575
Activity:	APE20080001
Permit:	F-08-007

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input checked="" type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input checked="" type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

Emissions Summary

Pollutant	Actual (tpy)	Potential (tpy)
PM	0.51	6.52
SO ₂	0.06	3.39
NO _x	6.72	86.8
CO	5.48	70.5
VOC	0.38	4.74

SOURCE DESCRIPTION:

On January 2, 2008, Northern Kentucky University applied to the Division for the renewal permit of their existing permit [F-02-025 R2] for their facility in Highland Heights, Kentucky. The applicant proposes to construct/operate six new natural-gas fired indirect heat exchangers (3 boilers-each 2 MMBtu/hr), (3 boilers-each 1MMBtu/hr) and one 288 hp industrial engine (emergency generator). The indirect heat exchangers will become Emission Units 22, 23, 24, 25, 26 and 27. However, the diesel generator will be placed under Section B emission unit 18, with the same monitoring, record keeping and reporting requirements.

These additions will not significantly increase the source wide potential to emit of any regulated air pollutant. The projected potential emissions increase of regulated air pollutants proposed from the additions is not considered a major modification and meets the requirements of 401 KAR 52:030, Section 14 (conditional major permit-minor revisions). Additionally, this modification will not change the monitoring, record keeping and reporting requirements of the permit. The source shall maintain the source wide federally enforceable operational emissions limits to be less than 90 tons per year for Nitrogen Oxides (NO_x) to preclude the applicability of 401 KAR 52:020.

EMISSION AND OPERATING CAPS DESCRIPTION:

The source has the potential to be a major source for Nitrogen Oxides (NO_x) emissions. However, the source has been classified as a conditional major source with a federally enforceable limit not to equal or exceed 90 tons per year for Nitrogen Oxides (NO_x) to preclude the applicability of 401 KAR 52:020. The source is limiting the indirect heat exchangers to 5840 hours per year of operation while burning No. 2 fuel oil, thereby limiting the potential emissions source-wide for NO_x below 90 tons per year.

OPERATIONAL FLEXIBILITY:

N/A